

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949302

Luminaire Tested: **GALN-SB4A-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16123 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

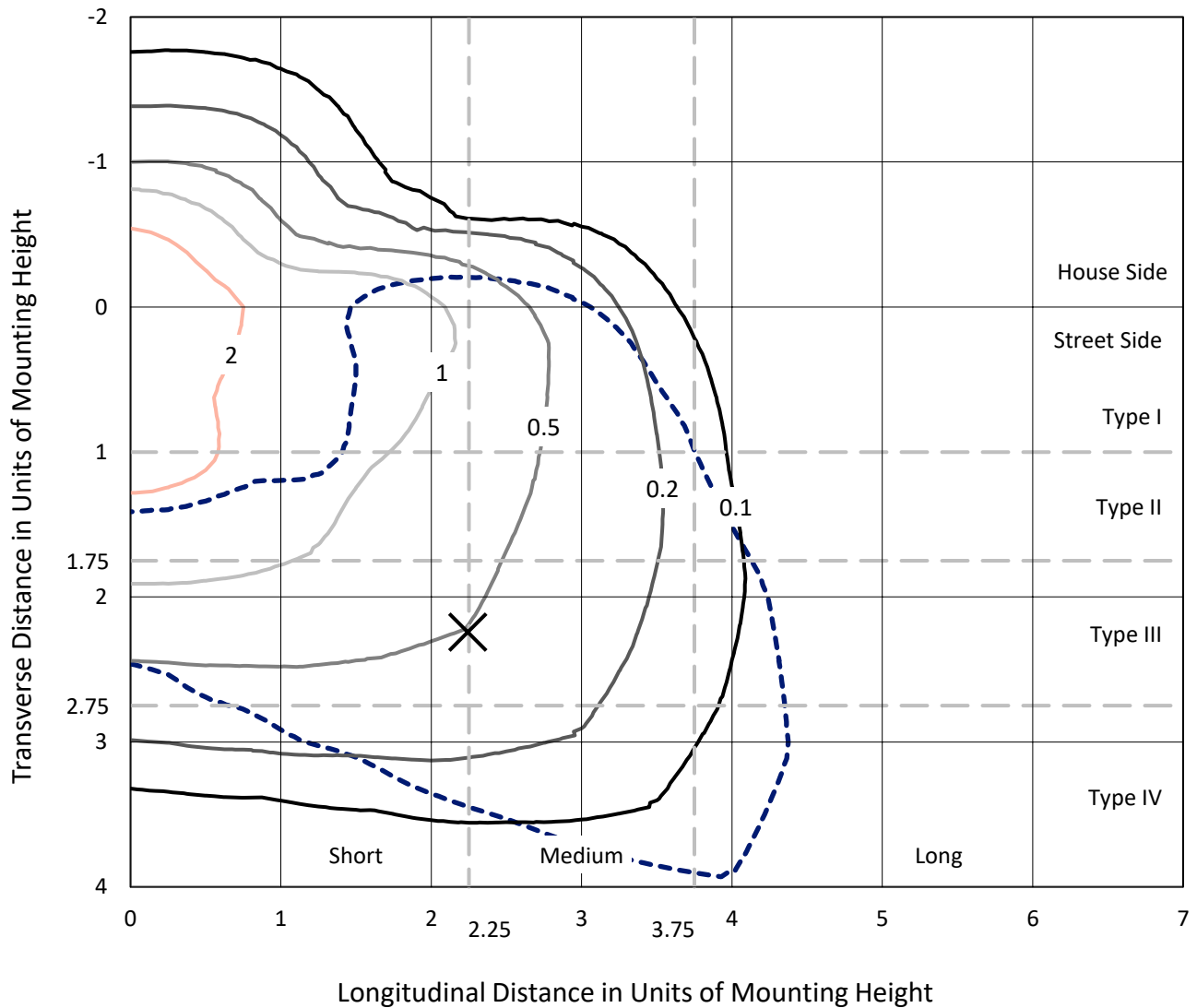
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

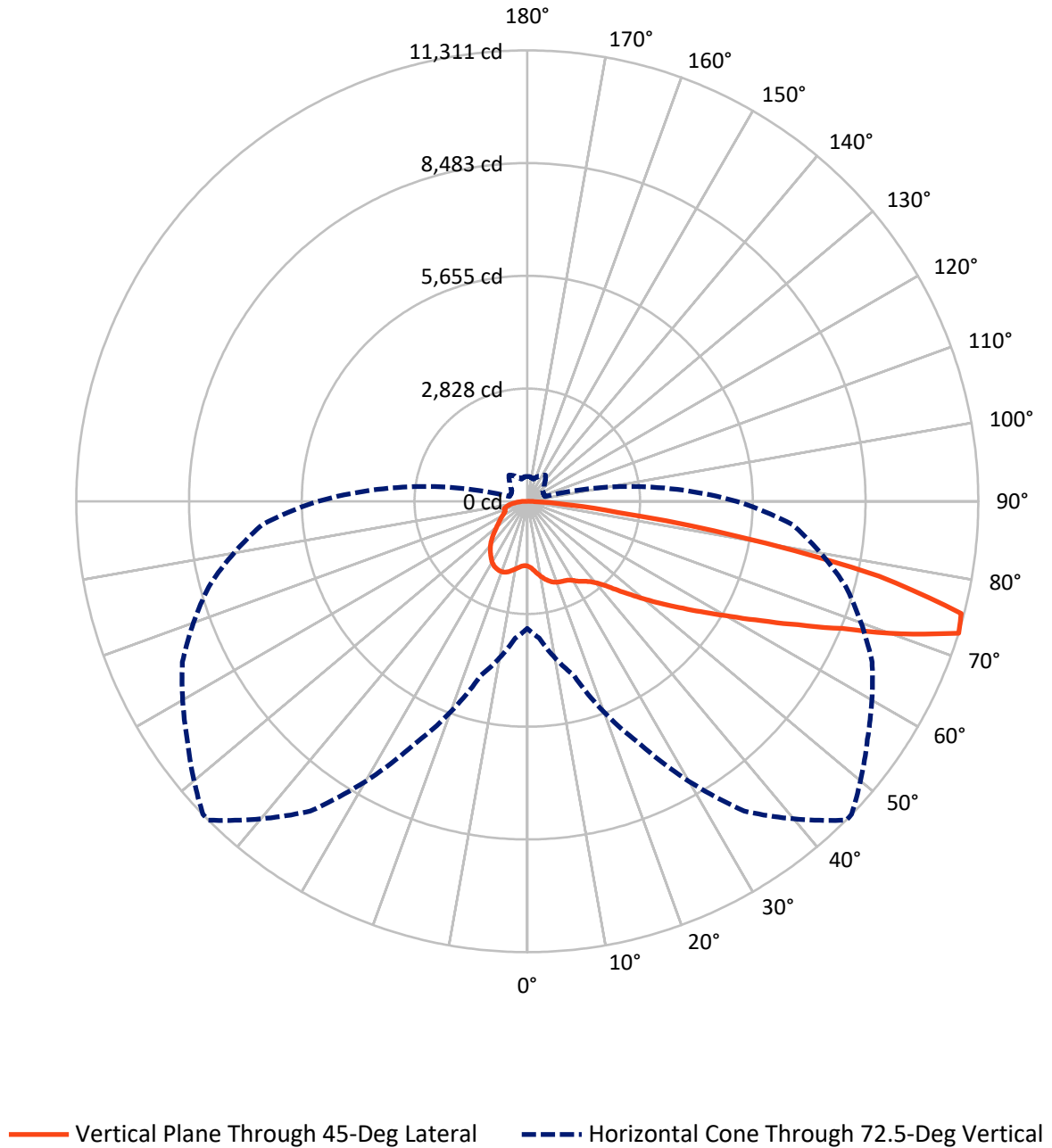
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3644.9	0.0	3644.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12478.1	0.0	12478.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	16123.0	0.0	16123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	1.0
10°-20°	551.9	3.4
20°-30°	960.1	6.0
30°-40°	1376.4	8.5
40°-50°	1938.1	12.0
50°-60°	2968.6	18.4
60°-70°	4300.4	26.7
70°-80°	3434.1	21.3
80°-90°	427.7	2.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16123.0	100.0
0°-180°	16123.0	100.0

Coefficient of Utilization



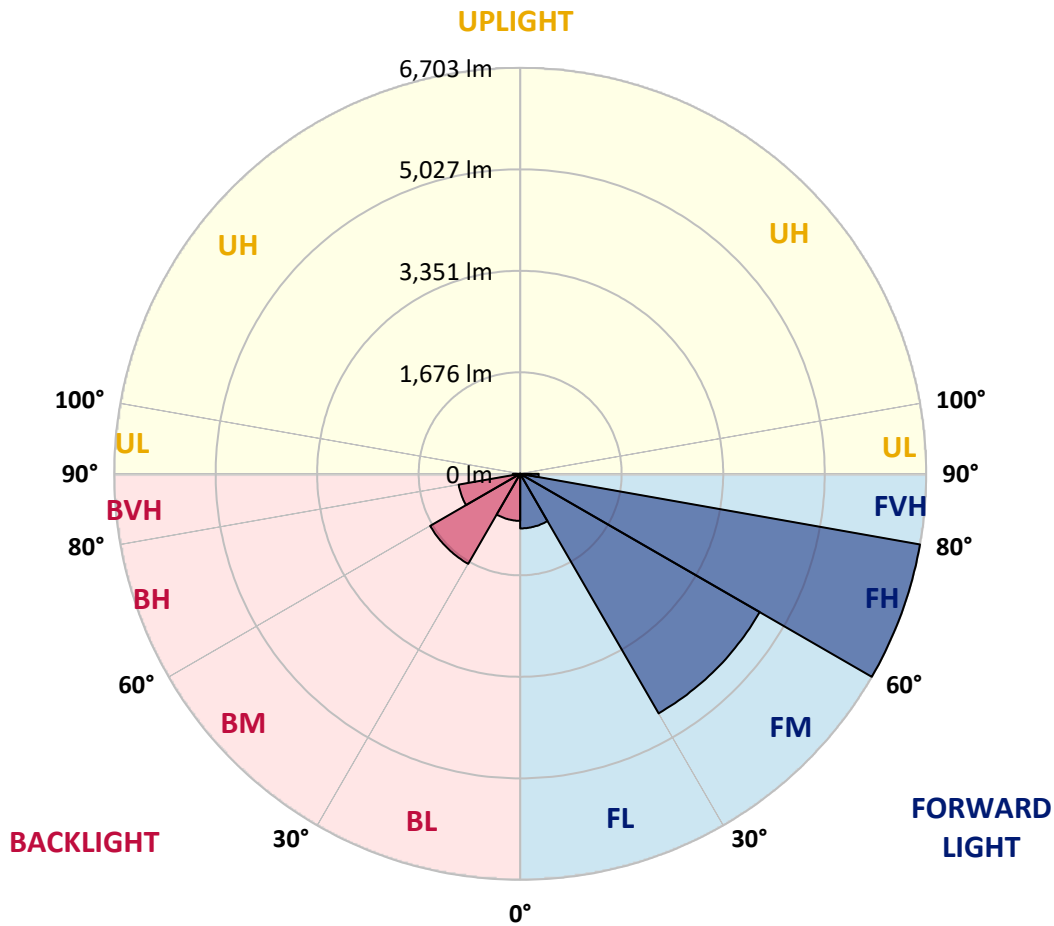
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.6	5.6			
FM (30°-60°)	4566.9	28.3			
FH (60°-80°)	6702.8	41.6			G3/7500
FVH (80°-90°)	306.8	1.9			G3/500
BL (0°-30°)	776.0	4.8	B2/1000		
BM (30°-60°)	1716.2	10.6	B2/2500		
BH (60°-80°)	1031.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	120.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5
2.5°	1690.2	1701.2	1691.0	1681.7	1677.5	1666.4	1665.6	1658.8	1654.5	1642.6
5°	1808.3	1822.7	1805.7	1787.0	1770.0	1742.9	1739.5	1719.9	1697.8	1672.4
7.5°	1941.6	1954.3	1934.8	1906.8	1877.1	1832.0	1831.2	1795.5	1760.7	1717.4
10°	2058.0	2075.0	2048.6	2010.4	1973.0	1922.1	1916.1	1875.4	1831.2	1775.1
12.5°	2160.7	2172.6	2147.1	2100.4	2057.1	2006.2	1998.5	1953.5	1904.2	1840.5
15°	2242.3	2257.6	2223.6	2173.5	2127.6	2077.5	2070.7	2029.9	1980.7	1913.6
17.5°	2295.8	2308.5	2273.7	2217.6	2173.5	2131.9	2126.8	2092.8	2049.5	1981.5
20°	2316.2	2329.8	2293.2	2236.3	2195.6	2163.3	2160.7	2136.1	2106.4	2044.4
22.5°	2336.5	2349.3	2301.7	2242.3	2206.6	2186.2	2185.4	2169.2	2157.3	2106.4
25°	2418.9	2422.3	2358.6	2272.8	2221.9	2204.1	2203.2	2202.4	2207.4	2167.5
27.5°	2490.3	2489.4	2435.1	2354.4	2275.4	2238.0	2237.2	2245.7	2261.8	2228.7
30°	2594.8	2585.4	2520.9	2436.8	2364.6	2306.8	2301.7	2294.1	2306.8	2280.5
32.5°	2816.4	2786.7	2682.2	2532.7	2438.5	2394.3	2387.5	2339.9	2345.0	2328.9
35°	3134.1	3095.0	2955.7	2714.5	2530.2	2467.3	2464.0	2403.6	2393.5	2379.0
37.5°	3512.0	3463.6	3301.4	2977.8	2688.2	2552.3	2547.2	2492.8	2451.2	2435.9
40°	3891.7	3830.5	3696.4	3298.9	2920.9	2694.1	2678.0	2595.6	2548.0	2522.6
42.5°	4260.3	4209.4	4094.7	3659.0	3208.0	2901.4	2865.7	2724.7	2689.0	2665.2
45°	4586.5	4540.6	4456.5	4043.7	3544.3	3183.3	3148.5	2918.4	2907.3	2907.3
47.5°	4851.5	4841.3	4752.1	4436.1	3941.0	3504.4	3444.1	3187.6	3217.3	3263.2
50°	5145.3	5117.3	5022.2	4822.6	4407.3	3872.2	3822.9	3518.0	3629.3	3755.0
52.5°	5415.4	5430.7	5324.5	5225.2	4933.8	4282.4	4195.8	3907.8	4148.2	4356.3
55°	5693.2	5694.0	5664.3	5650.7	5485.9	4736.0	4640.8	4376.7	4758.9	5017.1
57.5°	5953.9	5955.6	5999.8	6119.5	6126.3	5259.1	5151.3	4952.5	5437.5	5700.8
60°	6186.6	6198.5	6319.1	6599.4	6689.4	5858.8	5756.9	5632.9	6139.1	6404.1
62.5°	6264.8	6308.1	6576.5	6974.8	7245.8	6594.3	6494.1	6420.2	6876.3	7122.6
65°	6132.3	6231.6	6750.6	7284.8	7818.2	7468.3	7368.9	7288.2	7642.4	7874.3
67.5°	5807.0	5935.2	6740.4	7610.1	8513.0	8519.8	8427.2	8237.8	8463.7	8552.9
70°	4950.0	5141.9	6146.7	7731.6	9310.5	9957.7	9868.5	9381.0	9283.3	8851.9
72.5°	3189.3	3447.5	4526.2	6731.9	9488.0	11310.7	11305.6	10413.0	9542.4	8270.9
75°	1163.6	1321.6	2103.0	4225.5	7964.3	11241.9	11275.1	10236.3	8710.9	6388.8
77.5°	423.8	463.7	686.3	1623.9	4898.2	9020.1	9088.8	8183.4	6200.2	3206.3
80°	222.5	244.6	351.6	630.2	2098.7	5356.8	5464.7	4863.4	2914.1	965.7
82.5°	123.2	133.3	197.0	342.3	945.3	2290.7	2355.2	1921.2	1025.2	409.4
85°	66.2	70.5	92.6	186.9	462.0	794.1	812.0	574.2	408.5	240.4
87.5°	19.5	23.8	30.6	59.5	180.9	178.4	182.6	113.8	161.4	121.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1626.5	0°	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5	1626.5
1639.2	2.5°	1634.1	1631.6	1622.3	1618.0	1612.9	1612.1	1616.3	1617.2	1618.0	1618.9
1657.9	5°	1649.4	1640.9	1632.4	1627.3	1629.0	1629.9	1638.4	1644.3	1648.6	1652.0
1692.7	7.5°	1679.2	1672.4	1657.9	1657.1	1659.6	1667.3	1678.3	1691.9	1699.5	1705.5
1737.8	10°	1723.3	1710.6	1693.6	1696.1	1701.2	1712.3	1735.2	1746.3	1759.0	1770.0
1793.0	12.5°	1768.3	1757.3	1737.8	1739.5	1748.0	1767.5	1789.6	1803.2	1811.7	1820.1
1852.4	15°	1826.9	1807.4	1786.2	1786.2	1801.5	1822.7	1832.9	1843.9	1849.0	1858.4
1916.1	17.5°	1887.2	1861.8	1833.7	1832.0	1850.7	1860.9	1866.9	1868.6	1870.3	1880.5
1978.1	20°	1947.5	1919.5	1879.6	1876.2	1880.5	1878.8	1877.9	1876.2	1878.8	1891.5
2041.8	22.5°	2007.0	1974.7	1919.5	1904.2	1892.3	1876.2	1875.4	1874.5	1876.2	1888.9
2110.6	25°	2076.7	2037.6	1963.7	1917.8	1877.9	1855.8	1858.4	1859.2	1860.9	1871.1
2182.0	27.5°	2152.2	2108.9	2004.5	1913.6	1841.4	1826.1	1821.8	1824.4	1830.3	1846.5
2253.3	30°	2227.8	2176.9	2041.8	1896.6	1795.5	1774.3	1760.7	1766.6	1785.3	1801.5
2315.3	32.5°	2296.6	2245.7	2071.6	1859.2	1736.9	1703.8	1686.0	1693.6	1712.3	1718.2
2384.1	35°	2377.3	2319.6	2084.3	1799.8	1673.2	1622.3	1598.5	1587.4	1596.8	1590.8
2464.8	37.5°	2467.3	2407.0	2082.6	1721.6	1598.5	1539.9	1506.7	1465.1	1445.6	1425.2
2583.7	40°	2600.7	2514.1	2062.2	1627.3	1505.9	1452.4	1392.9	1322.4	1278.3	1238.3
2775.7	42.5°	2782.5	2662.7	2024.8	1523.7	1401.4	1351.3	1270.6	1188.2	1118.6	1052.3
3067.0	45°	3053.4	2857.2	1978.1	1413.3	1288.5	1239.2	1151.7	1059.1	980.1	895.2
3480.6	47.5°	3444.1	3118.8	1934.0	1287.6	1169.5	1124.5	1045.5	959.8	866.3	783.9
4078.6	50°	3980.9	3494.2	1893.2	1165.3	1052.3	1018.4	955.5	868.0	773.8	707.5
4779.3	52.5°	4663.8	4004.7	1876.2	1047.2	942.8	930.0	879.9	798.4	709.2	653.1
5596.3	55°	5447.7	4615.3	1876.2	934.3	846.8	851.0	816.2	740.6	663.3	613.2
6438.9	57.5°	6247.8	5233.7	1842.2	829.8	765.3	783.1	761.0	694.8	625.1	573.3
7324.8	60°	6985.0	5751.8	1704.6	734.7	693.1	721.1	706.7	649.7	564.8	521.5
8065.4	62.5°	7551.5	6043.9	1439.6	659.1	633.6	665.9	658.2	590.3	553.8	535.9
8673.5	65°	7835.2	5996.4	1100.8	592.0	583.5	633.6	617.5	614.9	586.0	565.7
8871.4	67.5°	7661.1	5587.0	798.4	542.7	554.6	603.9	665.9	676.1	622.6	582.7
8314.2	70°	6897.5	4846.4	594.5	496.0	518.1	604.7	759.3	707.5	610.7	564.0
6668.2	72.5°	5247.3	3614.0	461.2	446.8	470.5	609.0	800.9	693.1	576.7	623.4
4154.1	75°	3000.7	1984.1	370.3	386.5	411.1	569.1	779.7	655.7	550.4	572.5
1646.0	77.5°	1144.1	762.7	305.8	327.0	330.4	496.9	745.7	653.1	524.0	511.3
493.5	80°	396.6	298.1	253.1	259.9	255.7	441.7	715.1	568.2	428.9	383.9
203.8	82.5°	162.2	148.6	200.4	192.0	181.8	343.1	577.6	464.6	350.8	310.0
98.5	85°	70.5	94.3	132.5	116.4	105.3	237.8	462.9	393.2	296.4	255.7
32.3	87.5°	14.4	35.7	56.1	52.7	54.4	158.8	328.7	279.4	209.8	157.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1626.5
1622.3
1653.7
1707.2
1767.5
1823.5
1861.8
1883.8
1896.6
1897.4
1884.7
1862.6
1819.3
1739.5
1609.5
1437.9
1240.9
1046.4
885.0
774.6
703.3
648.9
608.1
564.8
514.7
530.0
558.9
575.9
556.3
618.3
572.5
466.3
371.2
306.6
254.8
123.2
0.0

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